

**Notice of Allowability**

Application No.

10/616,374

Examiner

Frank M. Lawrence

Applicant(s)

ISAACS, GARRY PARKINSON

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the interview on January 18, 2005.
2. ☒ The allowed claim(s) is/are 12-19 (renumbered as 1-8).
3. ☒ The drawings filed on 09 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Gary Isaacs on January 18, 2005.

The application has been amended as follows:

In the Specification:

In line 12 of page 1, "4,469,49" has been changed to ---4,469,493---.

In the Claims:

Claims 1-11 have been canceled.

New claims 12-19 have been added as following:

--- Claim 12 (new). A filterless air purifying and vacuum cleaning device, comprising a powered impeller with multiple paddles or vanes for substantially atomizing fluid droplets simultaneously with transferring air, a tube with an orifice to introduce fluid into the impeller, and an impeller housing having multiple narrowed low pressure zones to reduce fluid surface tension, whereby dry particles become substantially wetted and discharged.

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Claim 13 (new). The device of claim 12, further including an inlet tube or pipe for conveyance of air into the impeller.

Claim 14 (new). The device of claim 12, wherein the impeller includes flat paddles or vanes, with enclosed sides to contain, control and direct fluid flow.

Claim 15 (new). The device of claim 12, further including an impaction means to splatter atomized droplets from the impeller to an anvil, substantially reducing them to smaller droplets.

Claim 16 (new). The device of claim 12, further including a high pressure air/fluid demisting chamber for droplet re-entrainment, comprising an air inlet, an air outlet and a fluid drain with a means for containing and operating said housing and impeller inside said demisting chamber.

Claim 17 (new). The device of claim 12, further including a drain means for continuously discharging particle laden fluids, eliminating the need for water baths, filters or collection plates.

Claim 18 (new). The device of claim 12, further including a means for attaching a central vacuum network to an air purification device to be used for either wet or dry cleaning of carpets and furnishings.

Claim 19 (new). The device of claim 12, further including a vacuum head with a screen to trap large objects, allowing small particles to pass into a suction means of said air purification device.---

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2. The following is an examiner's statement of reasons for allowance: Applicant has authorized the examiner to cancel the original claims and draft new claim 12, which recites limitations indicated as allowable in the previous office action. Specifically, the prior art of record fails to disclose or suggest the device described in claim 12, wherein the impeller housing has multiple narrowed low pressure zones to reduce fluid surface tension.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank M. Lawrence

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Primary Examiner  
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*Frank Lawrence*

*1-18-05*